

Glenn Research Center, Environmental Programs Manual

Chapter 4 - AIR POLLUTION CONTROL

NOTE: The current version of this Chapter is maintained and approved by the Environmental Management Office (EMO). The revision date for this chapter is March 2003. If you are referencing paper copies, please verify that it is the most current version before use. The current version is maintained on the Glenn Research Center intranet at <http://osat-ext.grc.nasa.gov/emo/pub/epm/epm-contents.pdf>. Approved by: EMO Chief, Michael Blotzer {mailto: Michael.J.Blotzer@nasa.gov}

PURPOSE

This chapter sets forth GRC policies and requirements for the design, construction, and operation of new and existing facilities that contribute airborne contaminants to the atmosphere. The provisions herein are in accordance with the national effort to improve air quality through prevention, control, and abatement of air pollution resulting from Federal activities. This chapter conforms to the GRC EMS as defined in this Manual [Chapter 1](#) and supports GRC environmental policy, promoting pollution prevention, regulatory compliance, and continuous improvement. Following the guidelines in this chapter will help achieve the GRC regulatory compliance objectives and targets. Achievement of these objectives and targets can be tracked through the audit results and Corrective & Preventive Action Report (CPAR) records.

APPLICABILITY

This chapter is applicable to all stationary sources of air pollution at GRC Lewis Field and Plum Brook Station and to a lesser extent to other off site sources of air pollution involved with GRC activities.

POLICY

Operations and Maintenance Policy

All facilities shall have systems and equipment capable of meeting local, State, and U.S. EPA codes, standards, requirements and Permit Conditions. All facilities will be operated and maintained in conformance with the Local, State, and U.S. EPA codes, standards, requirements and Permit Conditions. Any questions concerning disposal of airborne waste should be referred to the EMO at Lewis Field and the Plum Brook Environmental Manager at Plum Brook Station for appropriate direction.

Where required by the area safety committee, a sampling and testing program to monitor airborne wastes will be the responsibility of the EMO at Lewis Field and the Plum Brook Environmental Manager at Plum Brook Station. Reports on test results shall be sent to the Environmental Pollution Control Board (EPCB) and to the area safety committee chairman.

There shall be no releases of radioactive materials except through established and approved procedures. The Health Physics Team and the Radiation Safety Officer in accordance with Nuclear Regulatory Commission regulations will monitor airborne waste that contains radioactive material.

REGULATIONS

The following are the authorities that presently regulate air sources at NASA Glenn. They are incorporated here by reference. The complete regulatory text should be consulted for details.

The Air Quality Act of 1967

Public Law 90-148, and subsequent amendments including those of 1977 and 1990 {Clean Air Act Amendments}.

Ohio EPA regulations

Ohio Administrative Code 3745

Ohio Revised Code 3701 and 3704

Cleveland Division of Air Pollution Control Regulations
Provisions, Terms and Conditions of all Air Permits

Facility Status

Lewis Field is operating under a Permit Shield. A Draft Title V Operating Permit has been issued by Ohio EPA and is being reviewed. This Draft Permit is available on line at the Ohio EPA web page http://www.epa.state.oh.us/dapc/title_v/permits/typermit.html. Individual air pollution emission sources are classed as trivial sources, insignificant sources or non-insignificant sources. All insignificant sources and non-insignificant sources must be addressed in the facility Title V Operating Permit. All new sources and modifications to existing sources of air contaminants must be reviewed for the need to submit a Permit-To-Install application and/or a Title V Operating Permit modification. The Center must submit annual emission rates for air pollution emitted to the atmosphere to Cleveland Division of Air Pollution Control via Ohio EPA. Additionally the Center must submit regular compliance reports to Cleveland Division of Air Pollution Control.

Plum Brook Station is operating under a "Blue Card" system. All new sources and modifications to existing sources of air contaminants must be reviewed for the need to submit a Permit-To-Install application and/or Permit-To-Operate application. The Center must submit biannual emission rates for air pollution to Ohio EPA. Additionally the Center must submit regular compliance reports to Ohio EPA.

RESPONSIBILITIES

Interfacing With Regulatory Agencies

At Lewis Field, the EMO is the official point of contact with regulatory agencies in regard to air pollution. At Plum Brook Station, the Plum Brook Environmental Manager is the official point of contact with regulatory agencies in regard to air pollution.

Design and Construction

All GRC facilities will be designed and constructed in accordance with all applicable Federal, State, Local and Executive Order regulations and laws. All designs for new facilities and all modifications to existing facilities or air pollution sources that will result in the emission or altering of emissions of air pollution at Lewis Field will be reviewed by the EMO. The designs of such facilities will be submitted simultaneously to the Facilities Division (FD) and to the EMO. All designs for new facilities and all modifications to existing facilities or air pollution sources that will result in the emission or altering of emissions of air pollution at Plum Brook Station will be reviewed by the Plum Brook Environmental Manager. All designs for new facilities and all modifications to existing facilities or air pollution sources that will result in the emission or altering of emissions of air pollution at other sites under GRC cognizance shall be reviewed by the applicable project office. The EMO, Plum Brook Environmental Manager or other applicable project office performing these reviews will compile and submit any necessary permit applications or permit modification requests to the proper regulatory agency.

When the possibility of an accidental release of a contaminating or toxic airborne waste exists, suitable safeguards and emergency response activities must be included in the design.

All Employees

All GRC employees are responsible for recognizing and identifying their individual contribution to the minimization of air pollution to the environment.

RECORDS

- Ohio EPA/Federal Air Permits
- Ohio EPA/Federal Air Permit Applications
- Emission Fee/Other Regulatory Reports

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